

What is claimed is:

1. A system for processing asynchronous data, comprising:
a plurality of packeting modules configured to packet asynchronous data; and
a message composition module connected to said plurality of packeting modules,
wherein said message composition module is configured to send a request for a packet
to at least one packeting module of said plurality of packeting modules, and
wherein said at least one packeting module is configured to stop packeting
asynchronous data in response to said request and to send to said message composition
module a packet of asynchronous data formed prior to receiving said request.
2. The system of Claim 1, wherein said message composition module is configured to
send said request to each of said plurality of packeting modules, and wherein each packeting
module of said plurality is configured to stop packeting asynchronous data in response to said
request and to send to said message composition module a packet of asynchronous data
formed prior to receiving said request.
3. The system of Claim 2, further comprising a battery connected to said plurality of
packeting modules, said at least one battery being configured to store said asynchronous data.
4. The system of Claim 2, wherein said message composition module is configured to
receive a plurality of packets from said plurality of packeting modules.
5. The system of Claim 4, wherein said message composition module is configured to
receive said plurality of packets one after another in a predetermined order.
6. The system of Claim 4, wherein said message composition module is configured to
compose a message comprising said plurality of packets.
7. The system of Claim 6, further comprising a formatting module connected to said
message composition module and configured to format said message.

8. The system of Claim 7, further comprising an output module configured to transmit said message on a transmission line.

9. A system for transmitting asynchronous data packets, comprising:
means for packeting asynchronous data;
means for receiving a message from a message composition module;
means for interrupting said means for packeting in response to said message;
means for transmitting a plurality of packets, each packet of said plurality being formed by said means for packeting prior to an interruption by said means for interrupting;
and
means for composing a message comprising said plurality of packets.

10. The system of Claim 9, further comprising means for formatting said message into a formatted message.

11. The system of Claim 10, further comprising means for transmitting said formatted message.

12. The system of Claim 11, wherein said means for packeting packet said asynchronous data during a packeting time, said packeting time being greater than half of a total time for packeting said asynchronous data and for transmitting said message.

13. The system of Claim 12, wherein a time for said transmitting said message is so short compared to said packeting time that said total time is about equal to said packeting time.

14. The system of Claim 13, wherein said packeting time is equal to a cycle time for a transmission line over which said formatted message is transmitted.

15. The system of Claim 13, wherein said packeting time is more than a time for transmitting said formatted message.

16. A system for transmitting a packet of asynchronous data, comprising:

means for packeting said asynchronous data into a packet during a packeting time;

means for requesting said packet;

means for stopping said means for packeting in response to a request from said means for requesting;

means for composing a message comprising said packet; and

means for transmitting said message during a message transmitting time,

wherein said packeting time is greater than said message transmitting time.

17. The system of Claim 16, further comprising a transmission line over which said message is transmitted by said means for transmitting, said transmission line having a cycle time, and wherein said means for requesting requests said packet so that said packeting time is equal to said cycle time.

18. The system of Claim 16, wherein said packeting time is greater than half of a total time for packeting said asynchronous data and transmitting said message.

19. The system of Claim 18, wherein a time for transmitting said message is so short compared to said packeting time that said total time is about equal to said packeting time.